

1. A modeling apparatus for provisioning a storage resource, the apparatus comprising:

a monitoring module configured to monitor a plurality of existing storage resources corresponding to a client, one of the plurality of existing storage resources designated as a model storage resource;

a policy module configured to store a plurality of storage provisioning policies, the plurality of storage provisioning policies defining a modeling policy; and

a provisioning module configured to provision a new storage resource for the client according to the modeling policy, the new storage resource modeled after the model storage resource.

2. The apparatus of claim 1, further comprising a specification module configured to allow a user to specify one of the plurality of storage provisioning policies.

3. The apparatus of claim 1, wherein the model storage resource is stored in a storage pool in a storage server and the modeling policy specifies a storage location in which the new storage resource is provisioned.

4. The apparatus of claim 3, wherein the storage location comprises the same storage server as the model storage resource.

5. The apparatus of claim 4, wherein the storage location comprises the same storage pool as the model storage resource.

6. The apparatus of claim 1, wherein the modeling policy specifies a model group to which the model storage resource belongs.

7. The apparatus of claim 6, wherein the model group comprises a volume group used by the client.

8. The apparatus of claim 1, wherein the new storage resource is assigned to a file system and expands a storage capacity of the file system.

9. The apparatus of claim 8, wherein the modeling policy specifies a model group to which the model storage resource belongs, the model group comprising a volume group in which the file system is stored.

10. The apparatus of claim 1, wherein the new storage resource is assigned to a raw logical volume and expands a storage capacity of the raw logical volume.

11. A system for provisioning a storage resource, the system comprising:

- a client having a file system;
- a storage resource manager server configured to monitor a plurality of existing storage resources corresponding to the client and to provision a new storage resource for the client according to a modeling policy, the new storage resource modeled after a model storage resource; and
- a storage server configured to store the model storage resource and the new storage resource.

12. The system of claim 11, further comprising a storage resource manager repository configured to store a plurality of storage provisioning policies, the plurality of storage provisioning policies defining the modeling policy.

13. The system of claim 12, further comprising a user interface module configured to allow a user to access and specify one of the plurality of storage provisioning policies.

14. The system of claim 1, wherein the model storage resource is stored in a storage pool in the storage server and wherein the modeling policy specifies a storage location in which the new storage resource is provisioned and specifies a model group to which the model storage resource belongs.

15. A computer readable storage medium comprising computer readable code configured to carry out a process for provisioning a storage resource, the process comprising:

monitoring a plurality of existing storage resources corresponding to a client;

storing a plurality of storage provisioning policies, the plurality of storage provisioning policies defining a modeling policy; and

provisioning a new storage resource for the client according to the storage provisioning policies, the new storage resource modeled after one of the plurality of existing storage resources.

16. The computer readable storage medium of claim 15, wherein the process further comprises allowing a user to specify one of the plurality of storage provisioning policies.

17. The computer readable storage medium of claim 15, wherein the model storage resource is stored in a storage pool in a storage server and the modeling policy specifies a storage location in which the new storage resource is provisioned.

18. The computer readable storage medium of claim 17, wherein the storage location comprises the same storage server as the model storage resource.

19. The computer readable storage medium of claim 18, wherein the storage location comprises the same storage pool as the model storage resource.

20. The computer readable storage medium of claim 15, wherein the modeling policy specifies a model group to which the model storage resource belongs.

21. The apparatus of claim 20, wherein the model group comprises a volume group used by the client.

22. The apparatus of claim 21, wherein the new storage resource corresponds to a file system and wherein the model group comprises a volume group in which the file system is stored.